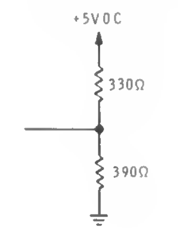
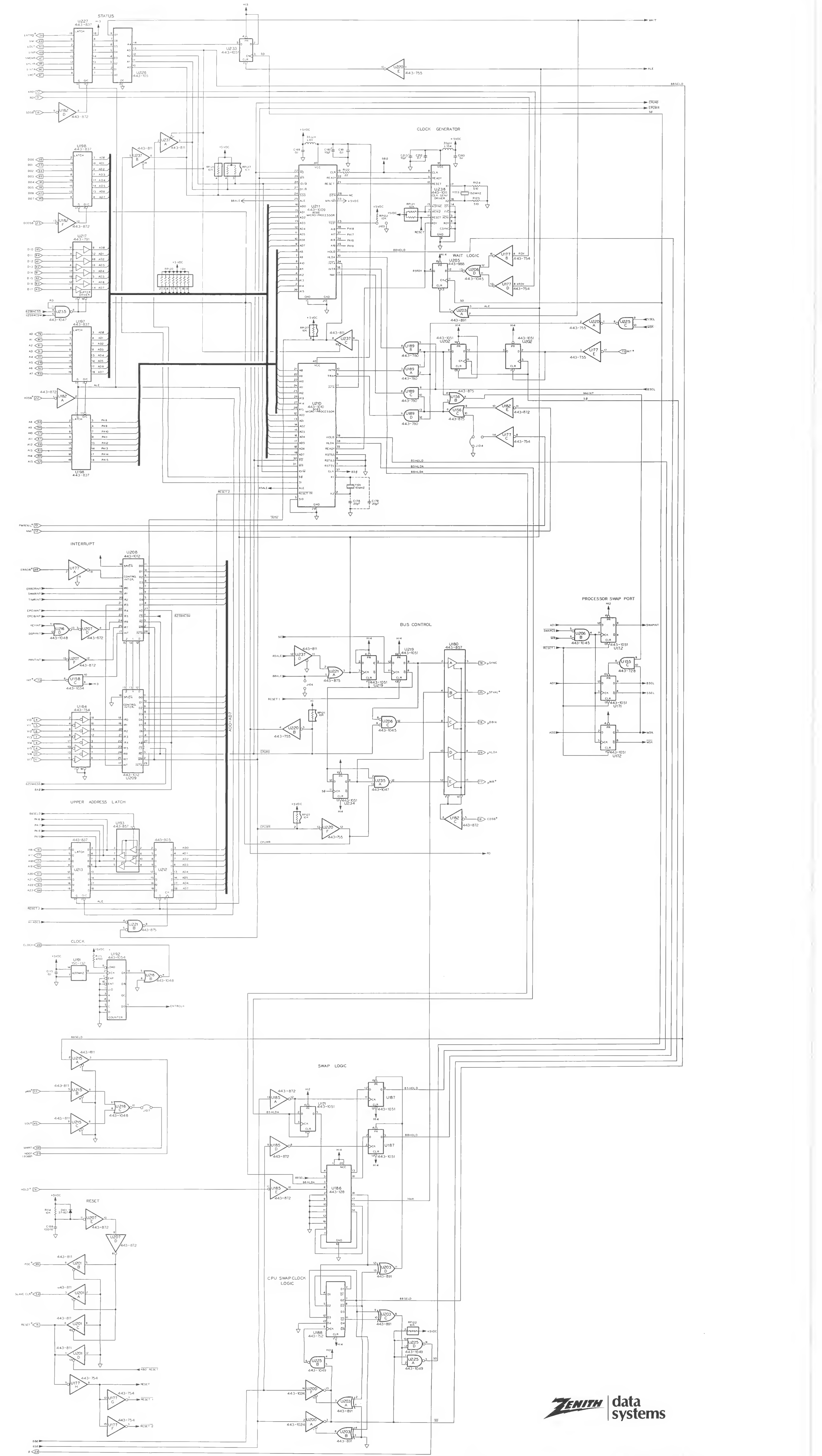
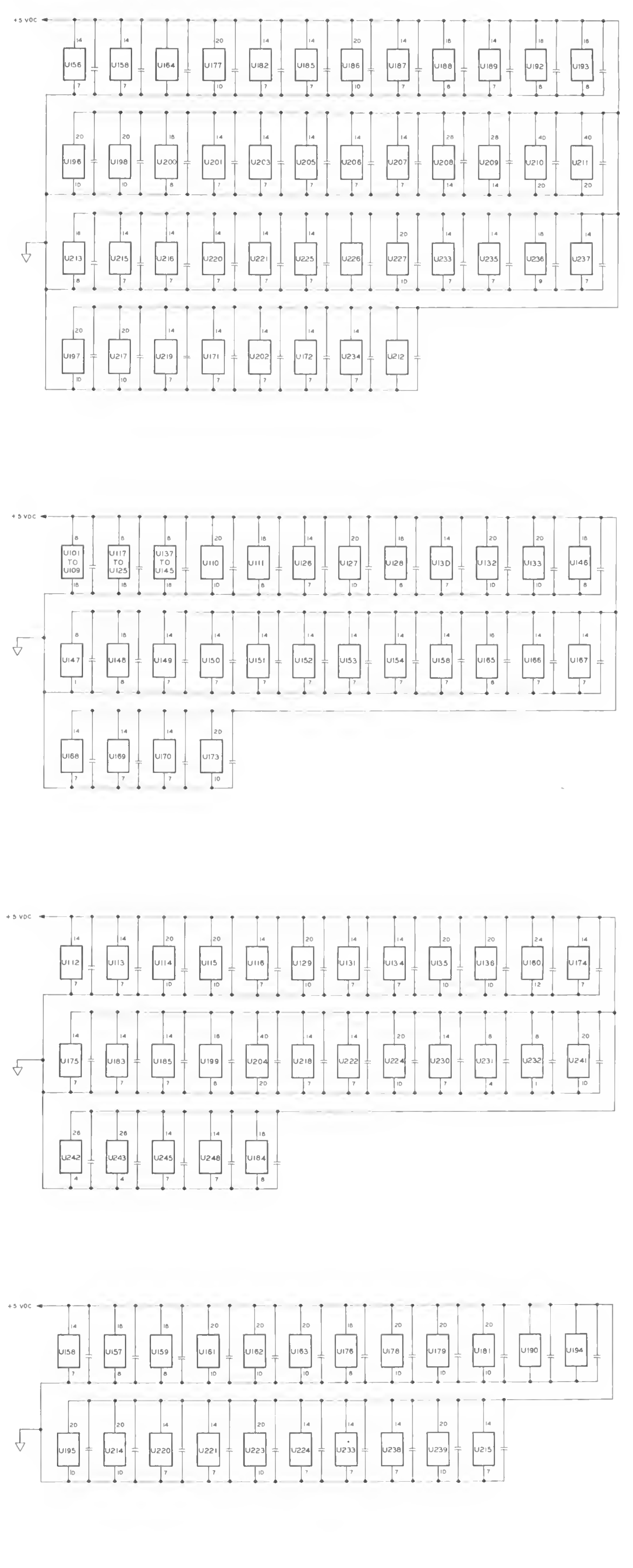
S-100 BUS

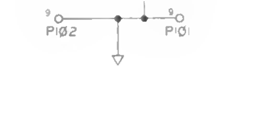
PIN NO.	SIGNAL	COMPONENT NO.	PULLUP RESISTOR	TERMINATOR RESISTOR (see note 1)
1	+8 VDC	-	-	-
2	+16 VDC	-	-	-
3	XRDY	RP114-6	4700Ω	-
4	VI0*	RP110-2	330Ω	-
5	VI1*	RP110-3	330Ω	-
6	VI2*	RP110-4	330Ω	-
7	VI3*	RP110-5	330Ω	-
8	VI4*	RP110-6	330Ω	-
9	VI5*	RP110-7	330Ω	-
10	VI6*	RP110-8	330Ω	-
11	VI7*	RP110-9	330Ω	-
12	NMI*	RP110-10	330Ω	-
13	PWRFAIL*	RP114-2	4700Ω	-
14	DMA3*	RP112-10	330Ω	-
15	A18	RP114-3	4700Ω	-
16	A16	RP114-4	4700Ω	-
17	A17	RP114-5	4700Ω	-
18	SDSB*	RP115-3	330Ω	-
19	CDSB*	RP115-4	330Ω	-
20	GND	-	-	-
21	NDEF	-	-	-
22	ADSB*	RP115-6	330Ω	-
23	DODSB*	RP115-8	330Ω	-
24	Φ	RP116-2	-	330Ω/390Ω
25	pSTVAL	RP116-3	-	330Ω/390Ω
26	pHLDA	RP116-4	-	330Ω/390Ω
27	RFU	-	-	-
28	RFU	-	-	-
29	A5	RP117-3	4700Ω	-
30	A4	RP117-5	4700Ω	-
31	A3	RP117-7	4700Ω	-
32	A15	RP118-2	4700Ω	-
33	A12	RP118-3	4700Ω	-
34	A9	RP118-4	4700Ω	-
35	DO1	RP123-2	4700Ω	-
36	DO0	RP123-3	4700Ω	-
37	A10	RP123-5	4700Ω	-
38	DO4	RP123-7	4700Ω	-
39	DO5	RP123-9	4700Ω	-
40	DO6	RP124-2	4700Ω	-
41	DI2	RP124-4	4700Ω	-
42	DI3	RP124-6	4700Ω	-
43	DI7	RP124-8	4700Ω	-
44	sM1	RP124-10	4700Ω	-
45	sOUT	RP125-3	4700Ω	-
46	sINP	RP125-5	4700Ω	-
47	sMEMR	RP125-7	4700Ω	-
48	sHLTA	RP125-9	4700Ω	-
49	CLOCK	RP116-5		330Ω/390Ω
50	GND	-	-	-
51	+8VDC	-	-	-
52	-16VDC	-	-	-
53	GND	-	-	-
54	SLAVE CLR	RP112-2	330Ω	-
55	DMA0*	RP112-3	330Ω	-
56	DMA1*	RP112-4	330Ω	-
57	DMA2*	RP112-5	330Ω	-
58	sXTRQ*	RP111-3	4700Ω	-
59	A19	RP111-4	4700Ω	-
60	SIXTN*	RP112-9	330Ω	-
61	A20	RP111-5	4700Ω	-
62	A21	RP111-6	4700Ω	-
63	A22	RP111-7	4700Ω	-
64	A23	RP111-8	4700Ω	-
65	NDEF	-	-	-
66	NDEF	-	-	-
67	PHANTOM*	RP112-8	330Ω	-
68	MWRT	RP116-6	-	330Ω/390Ω
69	RFU	-	-	-
70	GND	-	-	-
71	RFU	-	-	-
72	RDY	RP115-2	330Ω	-
73	INT*	RP115-5	330Ω	-
74	HOLD*	RP115-7	330Ω	-
75	RESET*	RP115-9	330Ω	-
76	pSYNC	RP116-7	-	330Ω/390Ω
77	pWR*	RP116-8	-	330Ω/390Ω
78	pDBIN	RP116-9	-	330Ω/390Ω
79	A0	RP117-4	4700Ω	-
80	A1	RP117-6	4700Ω	-
81	A2	RP117-8	4700Ω	-
82	A6	RP117-9	4700Ω	-
83	A7	RP117-10	4700Ω	-
84	A8	RP118-5	4700Ω	-
85	A13	RP118-6	4700Ω	-
86	A14	RP123-4	4700Ω	-
87	A11	RP123-6	4700Ω	-
88	DO2	RP123-8	4700Ω	-
89	DO3	RP123-10	4700Ω	-
90	DO7	RP124-3	4700Ω	-
91	DI4	RP124-5	4700Ω	-
92	DI5	RP124-7	4700Ω	-
93	DI6	RP124-9	4700Ω	-
94	DI1	RP125-2	4700Ω	-
95	DI0	RP125-4	4700Ω	-
96	sINTA	RP125-6	4700Ω	-
97	sWO*	RP125-8	4700Ω	-
98	ERROR*	RP115-10	330Ω	-
99	POC*	RP125-10	4700Ω	-
100	GND	-	-	-

NOTE 1: TERMINATOR RESISTORS









NOTES:

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2. ALL CAPACITOR VALUES ARE IN μF (MICROFARADS), UNLESS OTHERWISE SPECIFIED.
3. REFER TO THE CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.

LEGEND:

1. ⏚ CHASSIS GROUND
2. ▽ CIRCUIT BOARD GROUND
3. ➝ DIRECTION
4. ▷ SIGNAL FROM S-100 BUS
5. ◁ SIGNAL TO S-100 BUS
6. ≫— MECHANICAL CONNECTION
7. → MALE CONNECTION
8. —< FEMALE CONNECTION
9. ┼ NO CONNECTION
10. ─●─ CONNECTION
11. —○ CALIBRATION OR A TEST POINT

PARTS ORDERING INFORMATION:

If you order a part from Zenith Data Systems, use the (HE) prefix. Example:

HE 443-730

If you order a part from Heath Company, DO NOT use the (HE) prefix. Example:

443-730

For semiconductor type numbers (Example: 74LS153), refer to the "Semiconductor Identification Chart."

INDEX:

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8088, 8085, clock generator, interrupt, CPU clock swapping, swap logic, reset, clock

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system configuration DIP switch, E-clock, I/O decoder

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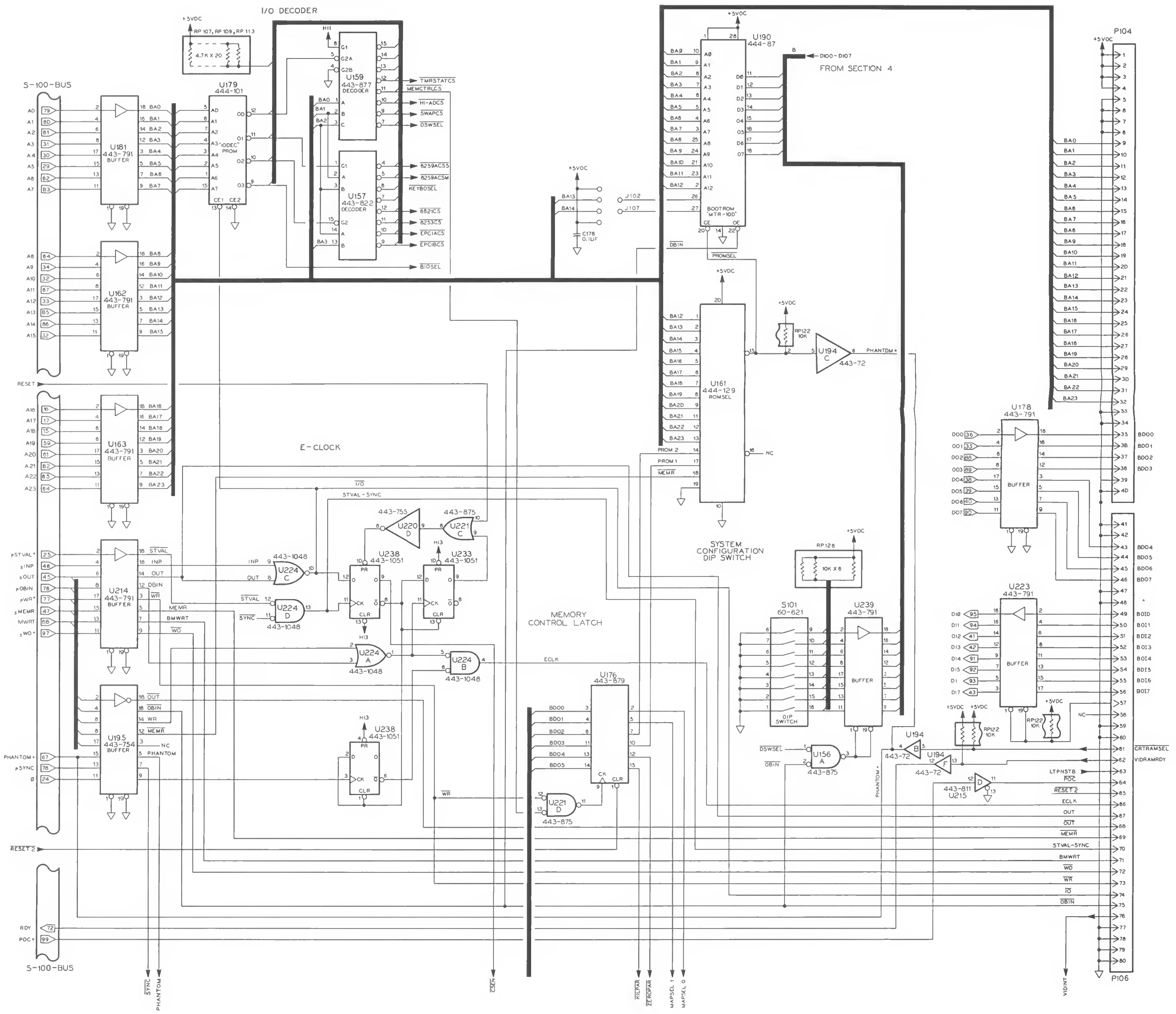
address multiplexer, wait state generator, RAM, parity generator, arbitration and TIC timing

Sheet 4 of 4
serial ports (modem, printer), parallel ports, keyboard encoder, keyboard matrix, timer

Z-100 COMPUTER
MAIN BOARD SCHEMATIC

SHEET 1 OF 4

Part Number 585-0018-02



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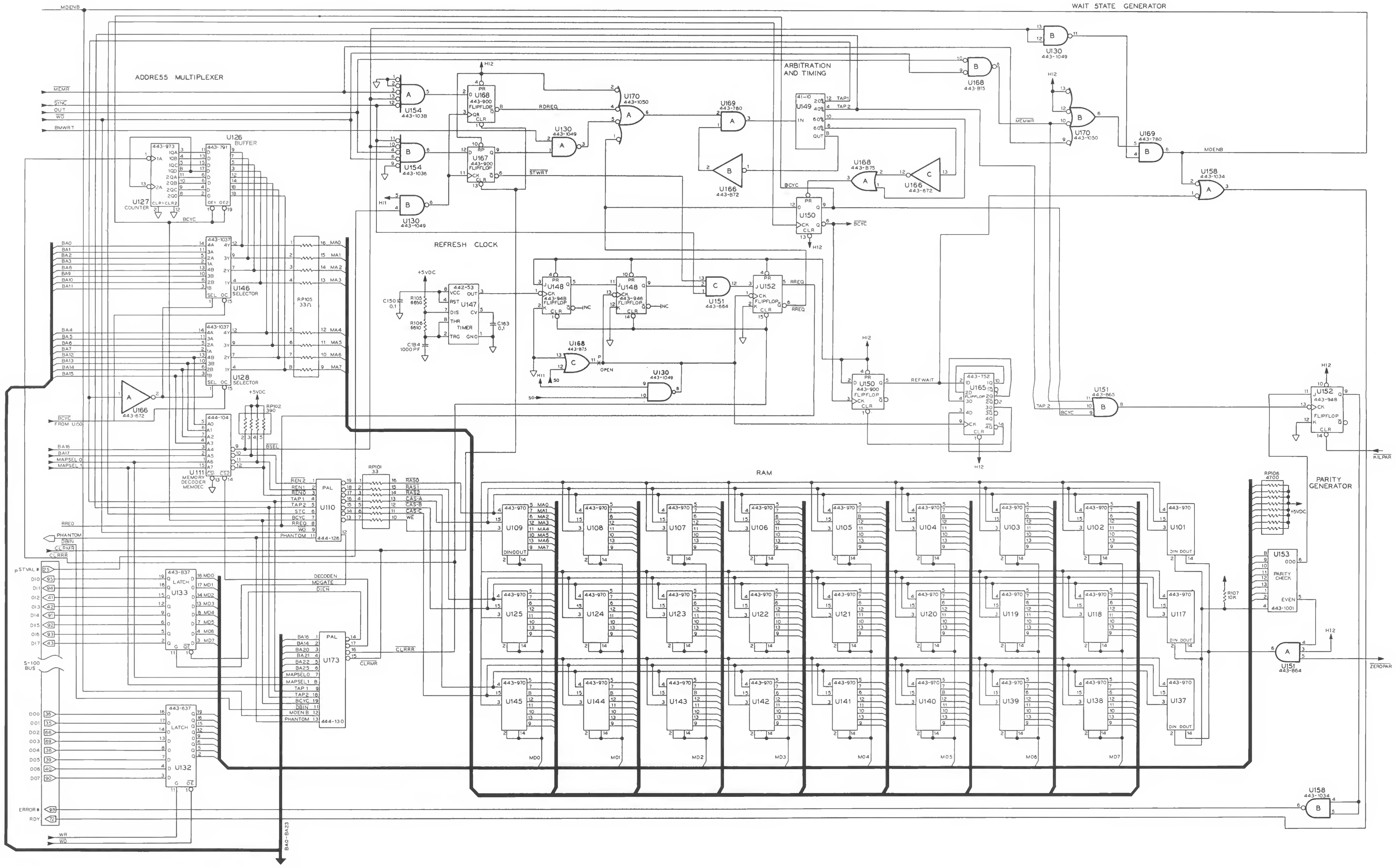
Z-100 COMPUTER
MAIN BOARD SCHEMATIC

SHEET 2 OF 4

Part Number 585-0018-02



ZENITH data systems

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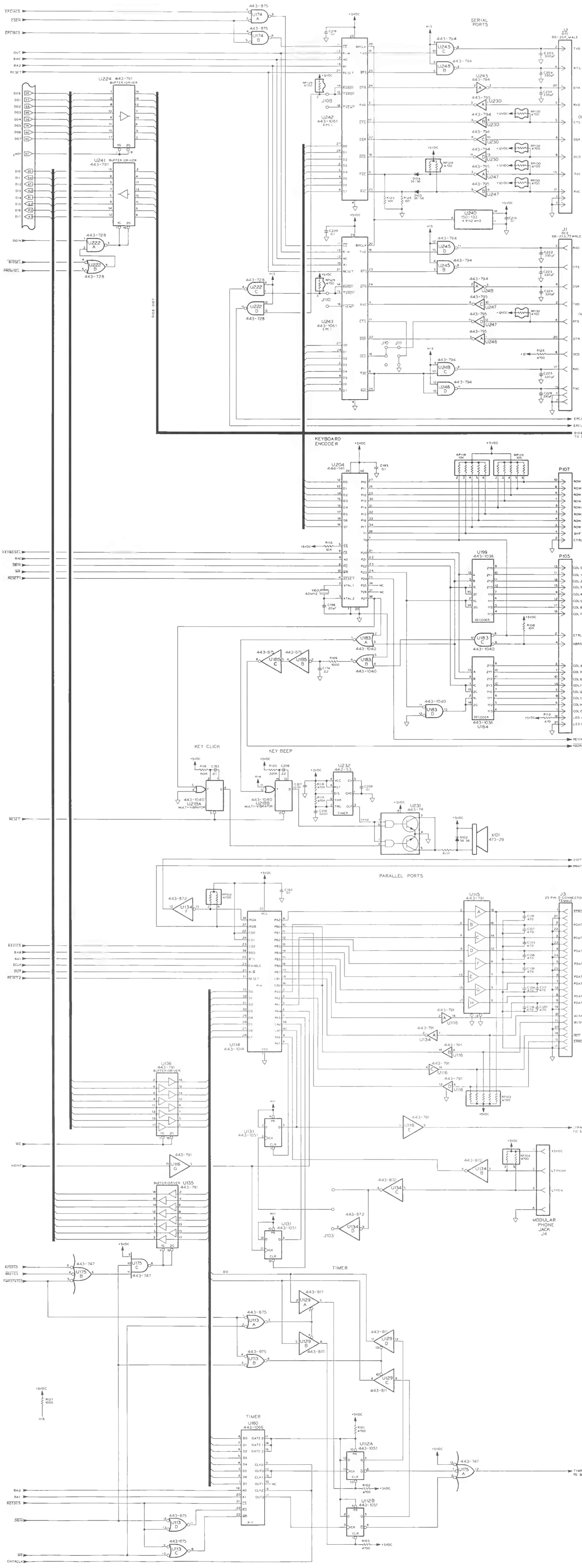
Z-100 COMPUTER
MAIN BOARD SCHEMATIC

SHEET 3 OF 4

Part Number 585-0018-02



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MAIN BOARD SCHEMATIC

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